

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: NYGREN et al.

Title: DEVICES AND METHODS FOR  
OPTICAL DETECTION OF  
NUCLEIC ACID HYBRIDIZATION

App. No.: 09/982,658

Filing Date: October 18, 2001

Examiner: TBA

Art Unit: 1655

**CERTIFICATE OF EXPRESS MAILING**  
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Suzanne L. Simpson

(Printed Name)

(Signature)

(Date of Deposit)

**AMENDMENT TO SPECIFICATION IN RESPONSE  
TO NOTICE OF MISSING REQUIREMENTS**

Commissioner for Patents  
Box Sequence Listing  
Washington, D.C. 20231

Sir:

Please amend the subject application as follows:

In the specification:

At page 39 replace the paragraph starting on line 21 with:

DNA capture probe was coated onto these wafer surface from a solution containing 50 mM sodium citrate, pH 6.0, 0.1 mg/ml carrier DNA, sheared herring sperm DNA, and 600  $\mu$ M biotinylated DNA, 26-mer. The probe sequence was 5'CGATAATATCAGAGAGATAACCCAC-3'(SEQ. ID NO. 1). Wafers were incubated in this solution overnight at 4°C. Wafers were removed from the solution and washed with 1x phosphate buffered saline containing 0.2 % Tween 20<sup>TM</sup> detergent (PBS/Tween). The wafers were then coated in a BSA (bovine serum albumin) solution for 3 hours at 65°C. The wafers were then rinsed with PBS/Tween detergent.

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